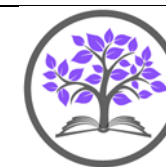


Meadow Park: Sequence Of Learning Overview 2023-2024



Subject- Mathematics

Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Year 1					
Number Place Value: Within 10	Geometry Shape: Recognise and name common 2D and 3D shapes.	Measurement Money: Recognise the value of different notes and coins.	Number Place Value: read and write numbers from 1-20 in numerals and words.	Number Fractions: recognise, find a name a half and a quarter.	Number Place Value: count to and across 100.
Number Addition and Subtraction: Within 10	Number Multiplication and Division: solving problems using concrete resources.	Measurement Time: sequence events in chronological order using language.	Measurement Length and Height: compare, describe, measure and begin to record.	Measurement Weight and Volume: more than, less than, full/empty, half, half full.	Geometry Position and Direction: describe position direction and movement.
Year 2					
Number Place Value: recognise place value of 2-digit numbers.	Geometry Shape: Describing the properties of 2D and 3D shapes.	Measurement Money: Recognise and use the symbols for £ and p. Combine amount to make a value.	Number Multiplication and Division: recognising odd and even numbers.	Number Fraction: write simple fractions and recognise the equivalence.	Number Place Value: count, read and write numbers to 100.
Number Addition and Subtraction: within 20 frequently and related facts to 100.	Number Multiplication and Division: 2s, 5s and 10s.	Measurement Time: compare and sequence intervals of time.	Measurement Length and Height: choose appropriate standard units to estimate and measure length/height.	Measurement Mass, Capacity and Temperature: compare and order mass, volume/capacity and record the results using <, > and =.	Geometry Position and Direction: order and arrange combinations of mathematical objects in patterns and sequences.
					Statistics Discrete and Continuous Data: interpret and construct simple pictograms and tally charts.
Year 3					
Number Place Value: recognising the place value of each digit in a 3-digit number.	Geometry Properties of Shape: recognise angles as a property of shape or a description turn.	Measurement Money: add and subtract amount of money to give change.	Geometry Properties of Shape: draw 2D shapes. Make 3D shapes with models. Horizontal and vertical lines.	Measurement Mass, Capacity and Length: add, subtract, measure and compare.	Statistics Interpret and present data using bar charts, picograms and tables.
Number Addition and Subtraction: add and subtract numbers mentally a 3-digit and ones, tens and hundreds.	Number Multiplication and Division: 2-digit by 1-digit. 3, 4 and 8 times tables.	Measurement Time: read analogue clocks, months in a year, days in a month, durations of events.	Number Decimals: introduction to simple decimals.	Number Fractions: add and subtract fractions with the same denominator.	Statistics Solve one-step and two-step problems using information present in scaled bar charts and pictograms.

Year 4

<p style="text-align: center;">Number</p> <p>Place Value: recognising the place value of each digit in a 4-digit number.</p>	<p style="text-align: center;">Geometry</p> <p>Properties of Shape: identify acute and obtuse angles and compare and order angles up to two right angles by size.</p>	<p style="text-align: center;">Measurement</p> <p>Money: estimate, compare and calculate word problems with money.</p>	<p style="text-align: center;">Geometry</p> <p>Properties of Shape: compare and classify geometric shapes. Lines of symmetry.</p>	<p style="text-align: center;">Measurement</p> <p>Mass, Capacity and Length: convert between units of measure.</p>	<p style="text-align: center;">Statistics</p> <p>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</p>
<p style="text-align: center;">Number</p> <p>Addition and Subtraction: add and subtract numbers with up to 4 digits using the formal written methods.</p>	<p style="text-align: center;">Number</p> <p>Multiplication and Division: 3-digit by 1-digit. Up to 12 times tables.</p>	<p style="text-align: center;">Measurement</p> <p>Time: convert between 12-hour analogue and 24-digital time. Solve problems hours to minutes, minutes to seconds, years to months and weeks to days.</p>	<p style="text-align: center;">Number</p> <p>Decimals: finding the value of tenths and hundredths. Rounding and comparing decimals.</p>	<p style="text-align: center;">Number</p> <p>Fractions: recognise and show using diagrams, families of common equivalent fractions.</p>	<p style="text-align: center;">Statistics</p> <p>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</p>

Year 5

<p style="text-align: center;">Number</p> <p>Place Value: up to 1 000 000.</p>	<p style="text-align: center;">Fractions</p> <p>Add and Subtract with the same denominator</p>	<p style="text-align: center;">Measurement:</p> <p>Converting Units: Convert between different units of metric measure, kilometre to metre, centimetre and metre etc</p>	<p style="text-align: center;">Number</p> <p>Decimals: round decimals with two decimal places to the nearest whole number to one decimal place.</p>	<p style="text-align: center;">Geometry</p> <p>Identify 3D shapes, including cubes and other cuboids, from 2D representations</p>	<p style="text-align: center;">Statistics</p> <p>Solve comparison, sum and difference problems using information from line graphs.</p>
<p style="text-align: center;">Number</p> <p>Addition and Subtraction: more than 4-digits.</p>	<p style="text-align: center;">Geometry</p> <p>Position and Direction: identify, describe and represent the position of a shape following reflection or transition.</p>	<p style="text-align: center;">Measurement:</p> <p>Perimeter, Area and Volume: calculate the perimeter of rectangles and related composite shapes. Calculate the area from scale drawings.</p>	<p style="text-align: center;">Number</p> <p>Percentages: recognise the % symbol and understand that percent relates to 'number of parts per hundred.'</p>		<p style="text-align: center;">Statistics</p> <p>Complete, read and interpret information in tables, including timetables.</p>
<p style="text-align: center;">Number</p> <p>Multiplication and Division: 4-digits by 1-digit.</p>					

Year 6

<p style="text-align: center;">Number</p> <p>Place Value: up to 10 000 000.</p>	<p style="text-align: center;">Fractions</p> <p>Add and Subtract with different denominators and mixed numbers</p>	<p style="text-align: center;">Measurement</p> <p>Converting Units: solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places.</p>	<p style="text-align: center;">Number</p> <p>Decimals: multiply 1-digit numbers with up to two decimal places by whole numbers.</p>	<p style="text-align: center;">Ratio</p> <p>(Solve problems involving the relative sizes of two quantities where missing values can be found.)</p>	<p style="text-align: center;">Statistics</p> <p>Interpret and construct pie charts and use these to solve problems.</p>
<p style="text-align: center;">Number</p> <p>Addition and Subtraction: multi-step problems in contexts, deciding which operations and methods to use and why.</p>	<p style="text-align: center;">Geometry</p> <p>Position and Direction: describe positions on a full coordinate grid. Draw and translate simple shapes on the coordinate plane.</p>	<p style="text-align: center;">Measurement</p> <p>Perimeter, Area and Volume: recognise that shapes with the same areas can have different perimeters. Recognise when it is possible to use formulae for area and volume.</p>	<p style="text-align: center;">Number</p> <p>Percentages: recall and use equivalences between simple fractions, decimals and percentages</p>	<p style="text-align: center;">Geometry</p> <p>(Draw 2D shapes given dimensions and angles.)</p>	<p style="text-align: center;">Statistics</p> <p>Calculate and interpret the mean as an average.</p>
<p style="text-align: center;">Number</p> <p>Multiplication and Division: 4-digits by 2-digits using a formal written method.</p>		<p style="text-align: center;">Algebra</p> <p>Use simple formulae and express missing number problems algebraically.</p>	<p style="text-align: center;">Ratio</p> <p>Solve problems involving the relative sizes of two quantities where missing</p>		

			values can be found.		
<u>Year 7</u>					
Four operations	Fractions, add, subtract, multiply, divide, Equivalences and decimals	Whole numbers, place value and decimals	Rounding	Basic percentages	Primes numbers, Multiples, factors, square, cube and prime factorisation, roots
Times tables	2D/3D shapes- Perimeter and area	Algebra- Expressions, equations, formulae, terms, factors, inequalities and identities, simplify and collect	Angles- acute, obtuse, reflex	Algebra- substituting numerical values	Ratio- Simplest forms and multiplicative relationships
Probability key terms and use Scale 0 to 1.	Averages- Mean, mode and range	Interpret algebraic notion	Charts- tables, timetables, line graphs and pictograms, coordinates	Algebra- Find the term-to-term rule	2D shapes- Translations, rotations, reflection, enlargements and symmetry
<u>Year 8</u>					
Use a calculator efficiently	Convert fractions and percentages	Negative numbers	Rounding estimating, significant figures and decimals	Percentages of a quantity	Factors, multiples, HCF and LCM
= < > ≤ ≥	Composite shapes, circumference, area and perimeter and volume	Algebra- Solve Linear equations	Unknown angles, alternate, corresponding and complementary angles	Algebra- Standard form	Proportion- percentage increase, decrease and change
Probability- Mutually exclusive and equally likely outcomes	Averages- Modal class	Algebra- Expand single and double brackets	Charts-interpret discrete data. Connect coordinates, equations and graphs. Statistical representations	Algebra- Find the nth term of a sequence	Properties of circle and rhombus
<u>Year 9</u>					
Reciprocals	Powers of fractions	Inverse and order of operations	Rounding errors	Percentage problems involving interest	Factorising, Powers Roots and standard form
Division 3 digit by 2 digit whole numbers	similarity and congruence Pythagoras theorem Trigonometry	Algebra-Factorise linear and quadratic expressions	Pythagoras and trigonometry	Algebra- recognise other types of sequences (non-arithmetic)	Proportion- Speed, unit pricing and density
Probability- analyse the frequency, theoretical probabilities and single/combined events.	Averages- Compare grouped, discrete or continuous data	Algebra-Standard form	Chart- Scatter graphs and describes mathematical relationships between two variables	Binomials and rearrange formulae	Elevations of 3D shapes
<u>Year 10</u>					
Number Properties	Algebraic expressions	Fractions	Geometrical reasoning	Constructions	Circles
Representing data	3d Shapes	Perimeter and Area	Patterns and sequences	Percentages	Equations

2D shapes	Units	Probability	Ratio and proportion	Collecting data	Compound measures
Negative Numbers	Averages	Decimal numbers	Scatter graphs	Accuracy and rounding	Pythagoras theorem

Year 11

Linear Graphs	Indices and standard form	Trigonometry	Revision	Past exam papers	
Inequalities	Graphical functions	Revision			
Transformations and vectors	Volume and surface area				
Formulae and kinematics	Simultaneous equations				

	Number
	Algebra
	Ratio
	Geometry and measure
	Probability
	Statistics